Section I: LAER/BACT Determination for Application No. 287160

Basic Equipment or Process: Spray Booth

1. Basic Equipment

1a. Manufacturer: Custom

1b. Type: Dry filter

1c. Model: Custom

1d. Style: Floor

1e. Types(s) of Parts Coated

Aerospace skins, rails & fasteners

1f. Types of Coating/Adhesive/Solvent Used

Fuel tank coating, chemical milling maskant, topcoats, exterior & interior primers, impact resistant coating, temporary protective coating, wipe cleaning solvent

1g. Applicable AQMD Regulation XI Rules

Rule 1124 - Aerospace Assembly and Component Manufacturing Operations

Rule 1171 - Solvent Cleaning Operations

1h. Cost

$13,000

Source of Cost Data:

2. Basic Equipment Rating/Size – Particulate Equipment

2a. Size/Dimension/Capacity

19' W x 48' L x 23' H

2b. Blowers

3@ 5 HP, 1 @ 7.5 HP

2c. Total Flow Rate: 53760

2d. Filters

120 @ 20" x 20"

2e. Normal Operating Condition

24 hrs/day, 7 days/wk, 50 wks/yr

3. Company Information

3a. Name: Douglas Products Division

3b. Address: 3855 Lakewood Blvd.

City: Long Beach

State: CA

Zip: 90846-0001

3c. Contact Person: Bill Pearce

3d. Phone No.: (310) 593-3903

4. Permit Information

4a. Agency

South Coast AQMD

4b. Agency Contact Person

Bijan Ataian

4c. Phone No: (909) 396-2454

4d. Permit to Construct Information

P/C No.: 287160

Issuance Date: 3/30/94

4e. Start-Up Date: 10/94

4f. Permit to Operate Information

P/O No. D96361

Issuance Date: 2/13/96

5. Emission Information

5a. Permit Limit

5a1. Permit Limit

341 gal/day coatings for the facility, excluding chemical milling maskant

5a2. BACT/LAER Determination

The BACT/LAER determination for this application is a combination of a concentrator and a thermal oxidizer. While the permit application was submitted to comply with Regulation XI, the control technology is considered achieved-in-practice.

5b. Control Technology

5b1. Manufacturer/Supplier

Durr

5b2. Description: Name of Control(s):

2 rotary zeolite concentrators with thermal oxidizer venting an enclosed, non-conveyorized spray booth and flash-off area. The flash-off enclosure is exhausted through the booth which is the booth make-up air. Coatings are manually applied in the booth. Source test verified this as permanent total enclosure for 100% capture. VOC laden air from the booth is vented through a concentrator where VOCs are removed from the air stream (adsorbed) as they pass through the zeolite. The air is then discharged to the atmosphere. The VOC on the zeolite is desorbed by a high temperature low volume desorption air stream. The desorption air stream is then directed into a thermal oxidizer for destruction of the VOC.

5b3. Control Equipment Permit Application Data

P/C No .: 287160
P/C Issuance Date: 3/30/94
P/O No.: D96361
P/O Issuance Date: 2/13/96

5b5. Warranty

Unknown

5b7. Secondary Pollutant

NOx 1.02 lb/hr, CO 5.35. lb/hr

5b9. Limitations

5b11. Operating History

5b4. Waste Air Flow to Control Equipment

Flow Rate: 53760

Actual VOC Loading:

Inlet Blower:

5b6. Primary Pollutant

VOC

5b8. Space Requirement

Unknown

5b10. Location of Prior Demonstration & Agency
Facility: Unknown Contact Person: Unknown
Phone Number: Unknown Agency: Unknown

Operating since 10/94 **5b13.** Source Test Conditions/Performance Data Unknown	Address: Unknown Permit Number: Unknown Contact Person: Unknown **5b12.** Source Test/Performance Data Analysis Date of Source Test: 12/1/95 Capture Efficiency: 100.00% Destruction Efficiency: 93.20% Overall Efficiency: 93.20% Performance Data:
5c. Cost **5c1.** Control Equipment Cost Capital: $3,650,000 Installation: Unknown Capital + Installation: Unknown Source of Cost Data:	**5c2.** Annual Operational/Maintenance Cost Unknown Source of Cost Data:
5d. Demonstration of Compliance **5d1.** Date of Field Evaluation **5d3.** Compliance Demonstration UNknown **5d5.** No. of Violations Unknown	**5d2.** AQMD Staff Performing Field Evaluation Engineer's Name: Bijan Ataian Inspector's Name: **5d4.** Variance No. of Variances: Unknown Causes: **5d6.** Frequency of Maintenance Unknown
6. Comment	